

Subcommittee on Hydrology (SOH)

ACWI-SOH Quarterly
Thursday 10/22/2015
NOAA NWS HQ
SSMC2- Room 10246
Silver Spring, MD 20910

Victor Hom, SOH Chair
NOAA National Weather Service

Robert Mason, SOH Vice-Chair
United States Geological Survey

Remote Participants:

1. Log-into: <https://global.gotomeeting.com/join/767017989> (Meeting ID: 767-017-989) and
2. dial toll-free line: 1-877-804-9873 Passcode: 4569357# via phone.
3. If PC fails, please download the slides and follow along.

Subcommittee On Hydrology

Purpose

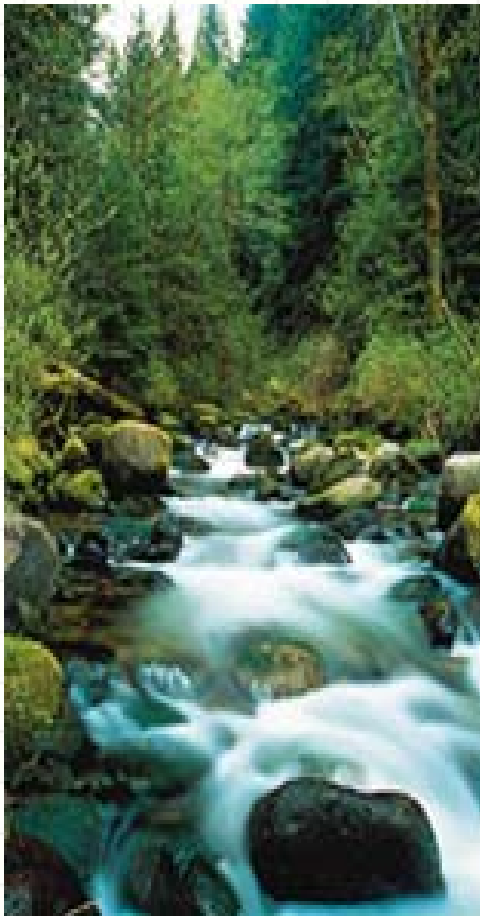
Improve the availability and reliability of surface-water quantity information needed for hazard mitigation, water supply and demand management, and environmental protection.

Activities

Quarterly Meetings, Workgroups, Workgroup Meetings, Announcements, Conferences.

Website

<http://acwi.gov/hydrology/index.html>



<http://acwi.gov>

- **Water Information Coordination Program**
The WICP ensures collaborative efforts among Federal Agencies to improve water information for decision-making about natural resources management and environmental protection.
- **Advisory Committee on Water Information**
The ACWI represents the interests of water-information users and professionals in advising the Federal Government on Federal water-information programs and their effectiveness in meeting the Nation's water-information needs.

SOH Member Organizations

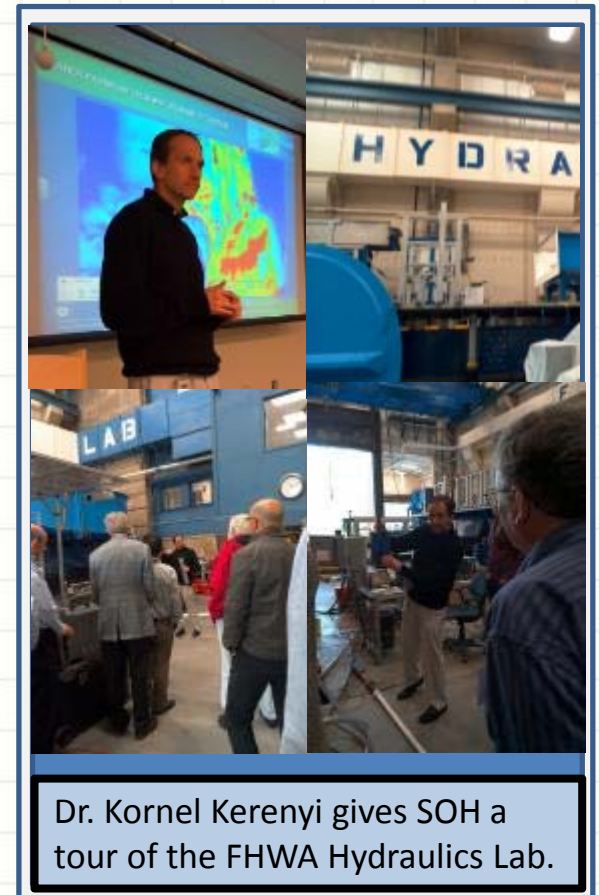
1. Agricultural Research Service (ARS)
2. Association of State Floodplain Managers (ASFPM)
3. BECKER
4. Bureau of Land Management (BLM)
5. Bureau of Reclamation (USBR)
6. Environmental Protection Agency (EPA)
7. Federal Emergency Management Agency (FEMA)
8. Federal Energy Regulatory Commission (FERC)
9. Federal Highway Administration (FHWA)
10. Forest Service (USFS)
11. National Aeronautics and Space Administration (NASA)
12. National Hydrologic Warning Council (NHWC)
13. National Science Foundation (NSF)
14. Natural Resources Conservation Service (NRCS)
15. NOAA National Weather Service (NWS)
16. Nuclear Regulatory Commission (NRC)
17. Office of Surface Mining (OSMRE)
18. U.S. Army Corps of Engineers (USACE)
19. United States Geological Survey (USGS)

SOH Workgroups

- **Hydrologic Frequency Analysis Work Group (HFAWG)**
- **Extreme Storm Events Work Group (ESEWG)**
- **Hydrologic Modeling Work Group (HMWG)**
- **Satellite Telemetry Interagency Work Group (STIWG)**

SOH Quarterly Meeting

- Quarterly Meetings hosted by Member Agencies
- Participation by Senior Officials, Advisors, Staff of the Host Agency, SOH Members, and Guests
- Formal Presentation on a Topic of Mutual Interest
- SOH Review of Workgroup Activities
- Member Agency Reports
- Cross collaboration with other ACWI Subcommittees



Dr. Kornel Kerenyi gives SOH a tour of the FHWA Hydraulics Lab.

Feature Presentation

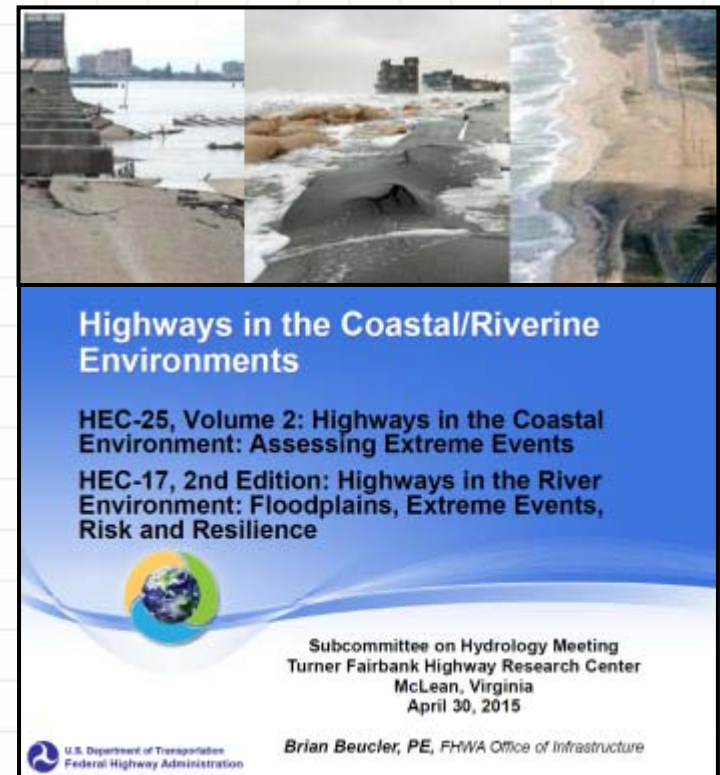
Probabilistic Flood Hazard Approach Program and Research Development



Curtis Jawdy (TVA), Joseph Kanney (NRC)

List of Past Feature Presentations

- [Guidelines for Determining Flood Flow Frequency Bulletin 17C](#)
- [Highways in the Coastal/Riverine Environments](#)
- [NASA's Earth Observation Systems for Hydrology](#)
- [NOAA National Climatic Data Center](#)
- [USGS Streamgauging](#)
- [Impact of Climate Change and Population Growth on the National Flood Insurance Program](#)
- [Engineering Guidance Frame Work for Inland Hydrology Considering Climate Change](#)
- [Climate Change Adaptation and Water Resources](#)
- [National Dam Safety Program and Hydrologic Needs](#)
- [The 2011 Mississippi River Basin Flood - A Perspective on Forecasting, Water Mgmt, and Flood Fight](#)



<http://acwi.gov/hydrology/minutes/index.html>

Big Thank You and Best Wishes to

Bill Merkel, USDA

David Wells, EPA

Jerry Webb, USACE

For the years of supporting SOH

SOH Hydrologic Modeling Workgroup (HMWG)

- **Jerry Webb, Chair** US Army Corp of Engineers (USACE)
- **Claudia Hoeft, Technical Chair** 5th FIHMC, USDA NRCS

Purpose and Goals:

- ☐ Promote sharing of information on modeling tools and modeling systems in hydrology and water resources.
- ☐ Plans, organizes, and promotes the Federal Interagency Hydrologic Modeling Conference every four/five years and
- ☐ Engages in other modeling related activities as appropriate.

SOH Satellite Telemetry Interagency Workgroup (STIWG)

LySanias Broyles, Chair US Army Corps of Engineers (USACE)

Purpose and Goals:

- ☐ User group for the Geostationary Operational Environmental Satellite (GOES) Data Collection System (DCS).
- ☐ Advises NOAA National Environmental Satellite, Data, and Information Service (NESDIS) on matters concerning satellite data relay user requirements
- ☐ Undertakes projects to benefit the GOES DCS community

SOH Extreme Storm Events Workgroup (ESEWG)

- **Thomas J. Nicholson, Chair** US Nuclear Regulatory Commission (USNRC)
- **Marian E. Baker, Vice-Chair** US Army Corps of Engineers (USACE)

Purpose and Goals:

- ☐ coordinate studies and databases for reviewing and improving methodologies and data collection techniques used to develop design precipitation estimates of large storm events up to and including the Probable Maximum Precipitation (PMP).
- ☐ develop a detailed scope of work/plan of study, and
- ☐ determine the necessary funding requirements to update the Catalog of Extreme Storms and Hydrometeorological Reports (HMR) for estimating PMP.

SOH Hydrologic Frequency Analysis Workgroup (HFAWG)

- **Will Thomas, Chair** Baker/ASFPM
- **John England, Vice-Chair**, US Bureau of Reclamation (USBR)

Purpose and Goals:

- ☐ recommend procedures to increase the usefulness of the current guidelines for Hydrologic Frequency Analysis computations,
- ☐ evaluate other procedures for frequency analysis of hydrologic phenomena, and
- ☐ forward draft papers and recommendations to the Subcommittee on Hydrology of ACWI for appropriate action.

Plans for Upcoming Meetings

Thursday January 28, 2015

- 1230PM-330PM Eastern
- in DC Area – Suggestions? Host?
- Topics (Streamflow Information Collaborative Working Group Presentation)
- Recap ACWI Annual Conference
- Robert presides as SOH Chair
- New ACWI-SOH Vice-Chair in place



SOH References

- SOH Website - <http://acwi.gov/hydrology/index.html>
- SOH Quarterly Meetings - <http://acwi.gov/hydrology/minutes/index.html>
- SOH HMWG - <http://acwi.gov/hydrology/Hydro-Modeling/index.html>
- 2015 Joint Federal Interagency Conference - www.sedhyd.org/2015/
- SOH STIWG - <http://acwi.gov/hydrology/stiwig/index.html>
- SOH ESEWG – <http://acwi.gov/hydrology/extreme-storm/index.html>
- SOH HFAWG - <http://acwi.gov/hydrology/Frequency/>
- Bulletin 17B - http://water.usgs.gov/osw/bulletin17b/bulletin_17B.html
- PeakFQ - <http://water.usgs.gov/software/PeakFQ/>
- Bulletin 17C - <https://sites.google.com/a/alumni.colostate.edu/jengland/bulletin-17c>